Date: User: Job Number This Issue First Issue Written By

Monday, 11/12/2007 11:45:44 AM

Kim Johnston

Process Sheet

Drawing Name

Customer

: CU-DAR001 Dart Helicopters Services

: 35616 : 10380 **Estimate Number**

P.O. Number

: NIA : 11/12/2007

S.O. No. : NIA

Prsht Rev.

Type

: 33510D Previous Run

: SMALL /MED FAB

Due Date

: D30657 Part Number **Drawing Number**

. D3065 REV. B : N/A

: STEP SPACER

Project Number **Drawing Revision** : 44

Material : 11/30/2007

Each

Checked & Approved By

Comment

Incorporated D3066-1 IPP KJ/RF

Est Rev:D Now on Water Jet 06-04-11 JLM

Additional Product

Job Number:



Seq. #:

Machine Or Operation:

Description:

1.0 PG



PURCHASING



Comment: ISSUE P.O 5022

GFI

CUT AND FORM PER DRWG D3065 REV.B

C207/11/12

2.0

D30657





0.0000 Each(s)/Unit

Total:

0.0000 Each(s)

Step Spacer

Step Spacer

3.0

PACKAGING ¹

PACKAGING RESOURCE #1



Comment: PACKAGING RESOURCE #1

RECEIVE AND INSPECT FOR TRANSIT DAMMAGE

ENSURE MATERIAL CERTIFICATION ATTACHED

4.0

QC6



5.0

Comment: DIMENSIONAL CHECK HAND FINISHING1

HAND FINISHING RESOURCE #*



Comment: HAND FINISHING RESOURCE #1

Chemical Conversion Coat as per QSI 005 4.1

Dart Aerospace Ltd

W/O: WORK ORDER CHANGE			CHANGES					
DATE	STEP	PR	OCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
	-							
					- 10			
Part No) :	PAR #:	Fault Category:	NCR: Yes	(No) DQ	A: 🔎	Date: 🤇	10/10/82

QA: N/C Closed: ____ Date: ____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)									
DATE		Description of NC		Corrective Action Section E	}	Verification	Approval Chief Eng				
	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C		Approval QC Inspecto			
						,					
-											
								*			

NOTE: Date & initial all entries

Monday, 11/12/2007 11:45:44 AM Date: Kim Johnston User: **Process Sheet** Drawing Name: STEP SPACER Customer: CU-DAR001 Dart Helicopters Services Part Number: D30657 Job Number: 35616 Job Number: Description: Seq. #: Machine Or Operation: INSPECT POWDER COAT/CHEMICAL CONVERSION 6.0 QC3 Comment: INSPECT CHEMICAL CONVERSION COAT PACKAGING RESOURCE #1 Comment: PACKAGING RESOURCE #1 Identify and Stock

Location: GA

FINAL INSPECTION/W/O RELEASE

08-01-03

Comment: FINAL INSPECTION/W/O RELEASE

2008/1/4

Job Completion

8.0



Dart Aerospace Ltd

W/O:		WORK ORDER CHA	NGES		, 10.		
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
		·	,				
Part No		PAR #: Fault Category:	NCR: Yes	No DQ	A:	Date: _	
			QA:	N/C Close	d:	_ Date: _	

NCR:		WORK ORDER NON-CONFORMANCE (NCR)									
DATE		Description of NC		Corrective Action Section E	3	Verification	Approval Chief Eng				
	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C		Approval QC Inspecto			

NOTE: Date & initial all entries

DART AEROSPACE LTD	Work Order:	35616
Description: Step Spacer	Part Number:	D3065-7
Inspection Dwg: D3065 Rev: B		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

X First	Article	Prototype
---------	---------	-----------

				I		T
Drawing	Tolerance	Actual	Accept	Reject	Method of Inspection	Comments
Dimension		Dimension			inspection	19
Ø0.128	+0.005/-0.000					
0.865 (Pitch)	+/-0.005					
4.522	+/-0.010					
0.250	+/-0.010					
2.093	+/-0.010					
3.936	+/-0.005					
4.186	+/-0.010					
Ø1.250	+/-0.005					
R0.125	+/-0.010		/			
Grain Direction	N/A		7	•		
		/				
					MA	
		7				
		/				
	/	7				
	1		1	1		

Measured by:	Audited	l by:	Prototype Approval:	N/A
Date:		Pate:	Date:	N/A

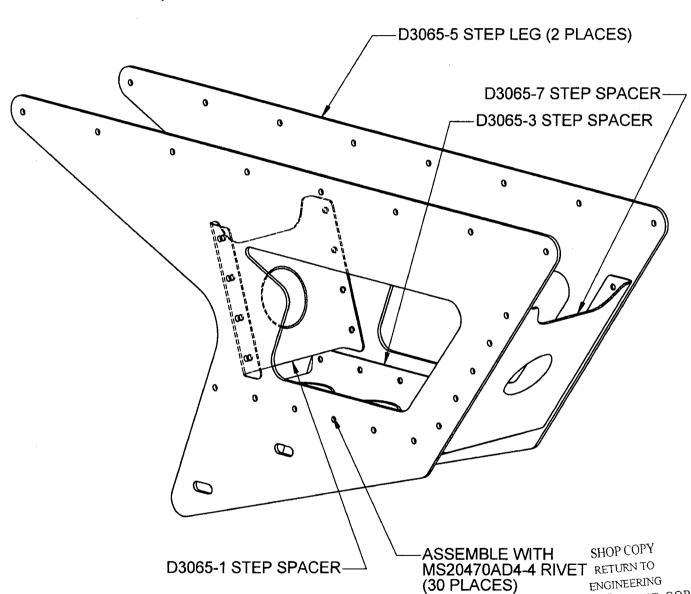
Rev	Date	Change	Revised by	Approved
Α	03.09.22	New Issue P/O D3065-041	KJ/RF	
В	04.05.15	Removed 0.531, 3.686, 0.580; Added 3.936 dimensions	KJ/JLM LA	
С	06.06.23	Dwg Rev. changed	KJ/JLM	\L1\
				77



DESIGN	8	DRAWN BY	DART AEROSPACE HAWKESBURY, ONTARIO, CAR	
CHECK		APPROVED	DRAWING NO.	REV. B
	PH		D3065	SHEET 1 OF 5
DATE	00.0	25.00	TITLE	SCALE
	06.0	05.23	STEP LEG ASSEMBLY	1:2
Α	0:	2.09.11	NEW ISSUE	
В	00	6.05.23	ADD 6061-T6 MATERIAL, ADD SLOTS	TO D3065-5

RELEASED

06 cb 20 Aff



D3065-041 STEP LEG ASSEMBLY

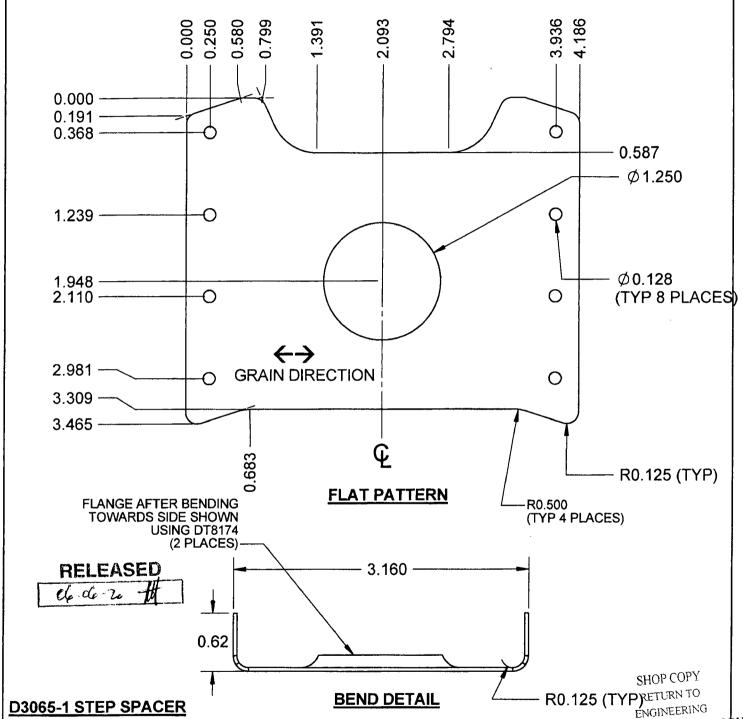
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE

WORK ORDER

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1) MATERIAL: 2024-T3 (QQ-A-250/4) 0.040 THICK (REF DART SPEC. M2024T3S 040) NTROLLED COPY 2) FINISH: ACID ETCH & ALODINE PER DART QSI 005 4.1

SUBJECT TO AMENDMENT

WITHOUT NOTICE

WORK ORDER

5) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED 6) ALL DIMENSIONS ARE IN INCHES

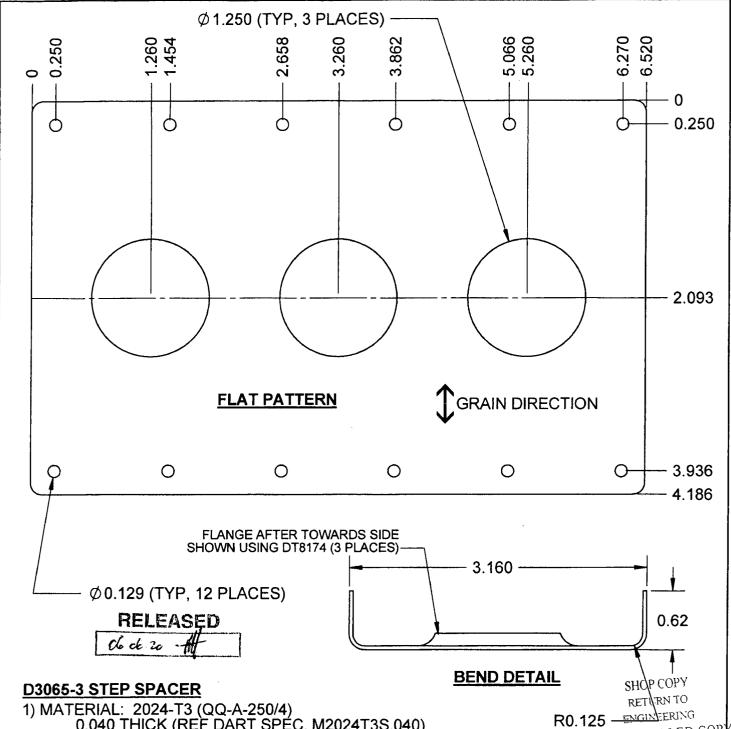
3) BREAK ALL SHARP EDGES 0.005 TO 0.010

4) PART IS SYMMETRIC ABOUT CENTERLINE

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0.040 THICK (REF DART SPÉC. M2024T3S.040)

2) FINISH: ACID ETCH & ALODINE PER DART QSI 005 4.1 3) PART IS SYMMETRIC ABOUT CENTERLINE

4) BREAK ALL SHARP EDGES 0.005 TO 0.010

5) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

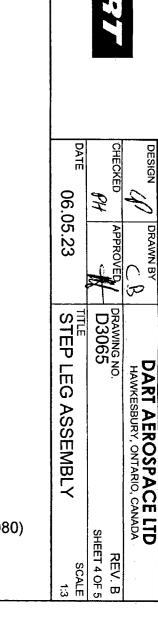
6) ALL DIMENSIONS ARE IN INCHES

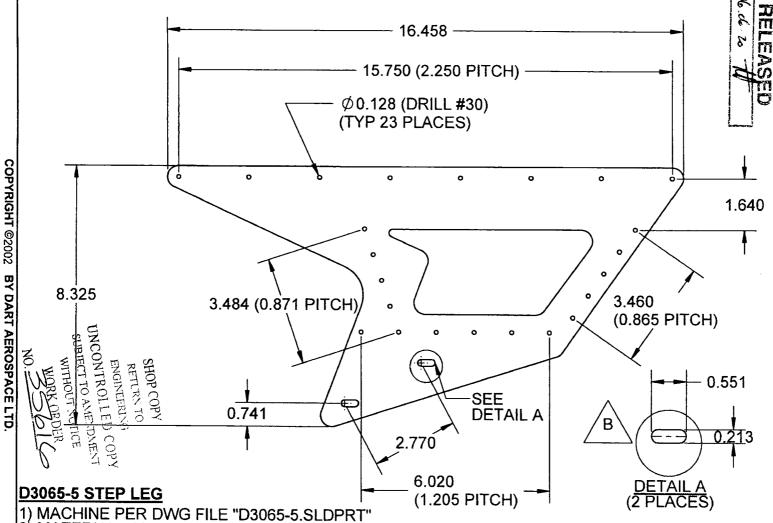
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WORK ORDER

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6061-T6 (PER QQ-A-250/11 OR AMS 4025 OR AMS 4027) 0.080" THICK (REF DART SPEC M6061T6S.080)

5052-H32 (PER QQ-A-250/8 OR AMS 4016) 0.080 THICK (REF DART SPEC. M5052H32S.080) 3) FINISH: ACID ETCH & ALODINE PER DART QSI 005 4.1

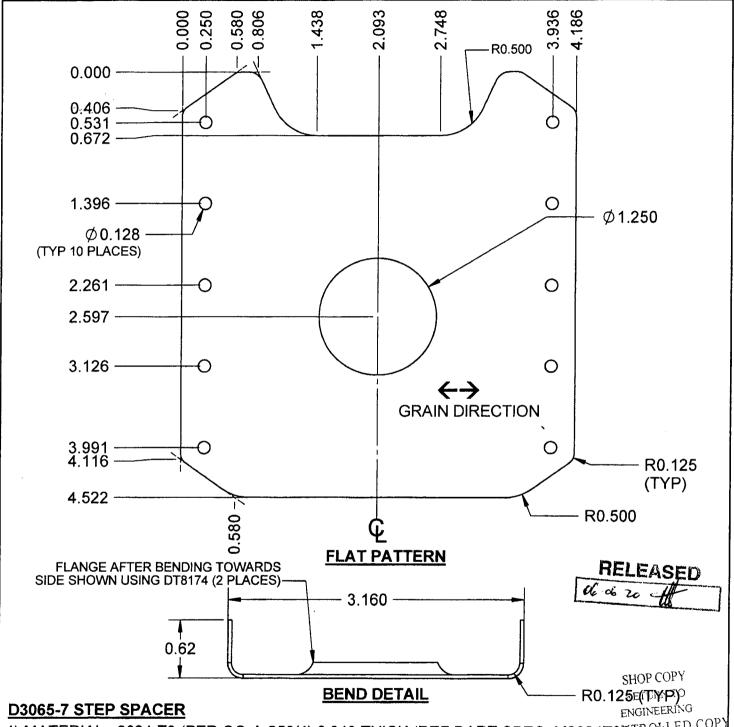
SHARP EDGES 0.005 TO 0.010

TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

ALL DIMENSIONS ARE IN INCHES







1) MATERIAL: 2024-T3 (PER QQ-A-250/4) 0.040 THICK (REF DART SPEC. M2024T3ST040) LED COP SUBJECT TO AMENDMENT

WITHOUT NOTICE

WORK ORDER

2) FINISH: ACID ETCH & ALODINE PER DART QSI 005 4.1

3) PART IS SYMMETRIC ABOUT CENTERLINE

4) BREAK ALL SHARP EDGES 0.005 TO 0.010

TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

ALL DIMENSIONS ARE IN INCHES

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180 AVENUE LABROSSE POINTE-CLAIRE, QUÉ., CANADA H9R 1A1 TÉL.: (514) 630-4877 - FAX: (514) 630-4849

It lest une division de Thomas & Betts Fabrication Inc. / GFI is a division of Thomas & Betts Manufacturing Inc.

1.NDU À / SOLD TO

DART AEROSPACE LTD 1270 ABERDEEN ST. 1AWKESBURY, ON, K6A 1K7



BONDELIVRAISON-SHIPPINGMEMO

DATE DE LIVRAISON	N° BON DE LIVRAISON
SHIPPING DATE	SHIPPINC MEMO NO
2007/12/14	0381189

EXPÉDIÉ À / SHIPPED TO

DART AEROSPACE LTD 1270 ABERDEEN ST. HAWKESBURY, ON, K6A 1K7

	CODE DE CLIENT CUSTOMER CODE		N° DE CONTRAT JOB NO		OMMANDE PO NO.		VIA SHIPVIA
ART G	FI-0299		J0171922	PO00005022	<i>/</i>		we re come, where he highermore the
QUANTITÉ QUANTITY		VOTRE N° DE PIÈC YOUR PART NO.	E		. D	ESCRIPTION	
250	D30657			STEP SPA	CER		
				CERTIFIC	ATE OF	CONFORMAL	ICE REQ
	,						
						·	

TOUTES LES RÉCLAMATIONS DOIVENT ÊTRE FAITES EN DEDANS DE 5 JOURS DE LA RÉCEPT DE ALL CLAIMS MUST BE MADE WITHIN 5 DAYS OF RECEIPT OF GOODS.

CERTIFICATE OF COMPLIANCE CERTIFICAT DE CONFORMITE



180 LABROSSE AVENUE POINTE CLAIRE, QC H9R 1A1 DART AEROSPACE LTD 1270 ABERDEEN ST. HAWKESBURY, ON K6A 1K7

250 PCS	PO00005022	D30651	В	ST	EP SPACER		В
MATERIAL L 2024-T3 (QQ		SUPPLIED BY SAMUEL / KAISER AL	UMINUM		MAT. REI H/N #	L. NO. 413490A4	Occupation. Approximations.
FIRST ART	PROCESS ICLE INSPECTION	N REPORT ON FILE		PROCESS GFI	OR	RELEASI CONI	E NOTE FORMS
]				
			J				
							ACTORISM AND VALUE OF
							T. SOUTH STATES
							n vonet, internet



Programme d'Assurance Qualité Enregistré / Registered Q.A. Program ISO 9001:2000 AS9100

LETTRE DE CONFORMITÉ -LETTER OF COMPLIANCE

Date: 20 NOVEMBRE 2007

Company Name:

G.F.I. Division of Thomas & Betts limited

Address:

180 avenue Labrosse

City:

Pointe Claire, Qué.

Zip Code:

H9R 1A1

du client:

72573

de commande SSMQ:

873720

Customer's order #:

SSMQ's Order #:

La présente est pour certifier que le matériel détaillé ci-dessous est conforme aux exigences de votre commande et des normes du grade tel que décrit:

The following is to certify that the material listed below meets your order requirements and grade standards as described:

Notre/Our Item #	# de pièces/ # of pieces	Épaisseur/Grandeur Guage/Size	Alliage/Trempe Alloy/Temper	Spécification / Specification	Lot/Heat
1	5	.040" X 48" X 144"	2024 T3	AMS-QQ-A-250/4	413490A4
					b.

Bien à vous, Yours truly,

Commis à l'administration. Administration Clerk.

LES MÉTAUX SPÉCIALISÉS SAMUEL, 21525 CLARK-GRAHAM. BAIE d'URFÉ, QUÉBEC H9X 3T5 SAMUEL SPECIALITY METALS, 21525 CLARK-GRAHAM, BAIE D'URFÉ, QUÉBEC H9X 3T5

TÉL: 514-457-3399 FAX: 514-457-9393

LET. DE. COM 12/01/04

SHIP TO:

SAMUEL MISSISSAUGA 2360 DIXIE ROAD MISSISSAUGA, ON, CA L4Y1Z7

SOLD TO:

SAMUEL MISSISSAUGA 2360 DIXIE ROAD MISSISSAUGA, ON, CA L4Y1Z7 KAISER ALUMINUM

Trentwood Works - Spokane, WA 99215 Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number 4107888

CUSTOMER PO NUMBER: WORK PACKAGE			GE:	CUSTOMER PART NUMBER:			SHIP R	UN/LOAD ID:	GOV'T CONTRACT NUMBER:				
N20042								101068/16		<u></u>			
KAISER ORDER NO:	LINE IT	LINE ITEM: SHIP DATE: 9 10-SEP-200		TE:	ALLOY: CLAD: TEN			TEMP	EA:	PRODUCT	PRODUCT DESCRIPTION:		
1055568	9			-2007	007 2024		BARE T3			MILL FINISH_		COIL	
WEIGHT SHIPPED:	QUANTI	ITITY: B/L N			NUMBER: G		GAUGE:		WIDTH:			LENGTH:	
4385 LB	1 PCS EST. 2			2014	4374 0.0400 IN			1	48.000 IN			0.000 IN	

Certified Specifications

AMS 4037/RevN CMMP 019/RevD AMS-QQ-A-250/4/RevA CMMP 025/RevR

ASTM B 209/Rev06

Test Code: 1504

Test Results

Lot: 413490A4 Cast 392 Drop 05

Ingot 3

(ASTM E8/B557)

Tensile:	Temper Dir / # Tests T3 LT / 2 (Min:Max))	Ultimate KSI (MPA) 68.4 : 69.0 (472 : 476)			Yield KSI (MPA) 47.5 : 47.9 (328 : 330)			Elongation % 16.6 : 17.7			
(ASTM E12	•	FE	CU	MN	MG	CR	ZN	TI	v	ZR		OTHER	
Chemistry: Actual	SI 0.10	0.22	4.6	0.54	1.3	0.02	0.21	0.01	0.01	0.01	TOT	0.03	
					ALLOY L	IMITS			•				
Chemistry:	· sı	FE	CU	MN	MG	CR	ZN	TI	٧	ZR	OTHER	XAM	
2024 MIN	0.00	0.00	3.8	0.30	1.2	0.00	0.00	0.00	0.00	0.00	EACH	0.05	
MAX	0.50	0.50	4.9	0.9	1.8	0.10	0.25	0.15	0.05	0.05	TOT	0.15	
IVIAA	0.50	0.50			uminum R	emainder							

CERTIFICATION

KAISER ALUMINUM FABRICATED PRODUCTS, LLC (KAISER) HEREBY CERTIFIES THAT METAL SHIPPED UNDER THIS ORDER WAS MELTED AND MANUFACTURED IN THE U.S.A.
AND HAS BEEN INSPECTED. TESTED, AND FOUND IN CONFORMANCE WITH THE REQUIREMENTS OF THE APPLICABLE SPECIFICATIONS AS INDICATED HEREIN, ALL METAL WHICH
IS SOLUTION HEAT-TREATED COMPLIES WITH AMS 2772. ANY WARRANTY IS LIMITED TO THAT SHOWN ON KAISER'S STANDARD GENERAL TERMS AND CONDITIONS OF SALE.
TEST REPORTS ARE ON FILE, SUBJECT TO EXAMINATION. TEST REPORTS SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF KAISER
ALUMINUM FABRICATED PRODUCTS, LLC LABORATORY. THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULANT STATEMENTS OR ENTRIES ON THE CERTIFICATE MAY BE
PUNISHED AS A FELONY UNDER FEDERAL LAW. ISO-90012000 CERTIFIED

BILL POYNOR, LABORATORIES SUPERVISOR

Page 1 of 1